

REMARKS

Claims 1-33 are presently pending. Applicant has amended Claims 1, 7, 13, 19, 26 and 30. Applicant respectfully requests entry of the above amendments. Applicant submits that the amendments overcome the Examiner's rejections. Support for the amendment can be found at least on pages 74-83 of the application under the heading entitled, "Voice Based Identity Authentication for Data Access," especially the portion on p. 78 and the description of Fig. 23, describing a system that uses at least two voice authentication algorithms. See also Fig. 24. The amended claims do not include new matter.

Rejections Under 35 USC § 103 (a):

The Examiner rejected claims 1-33 under 35 U.S.C. § 103(a) as being unpatentable over Kondo et al., "Surfin' the World Wide Web in Japanese" (hereinafter "Kondo"), in view of U.S. Pat. No. 5,303,299 to Hunt et al. ("Hunt"). Applicant believes that the Examiner's rejection over Kondo in view of Hunt is overcome by the present amendment for the reasons discussed below. Accordingly, Applicant respectfully requests the Examiner to withdraw the rejections under 35 U.S.C. § 103(a) and to advance the claims to allowance.

The present claims are patentable over Kondo in view of Hunt because the references, both individually and combined, do not disclose or suggest the use of two different algorithms for authenticating the identification of a user, as presently claimed. Kondo discloses a method for using the Internet with voice commands, as noted by the Examiner. Hunt discloses a voice verification algorithm, but does not

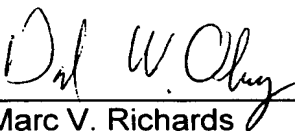
Ser. No. 09/387,195
Amendment under Rule 1.116

disclose the use of two independent algorithms. Hunt does disclose verification, including primary features such as zero crossing rates and frequency domain information (col. 7, line 1-6); secondary features such as phonetic segmentation (col. 7, lines 11-16), and tertiary features, such as individual phonetic units (col. 7, lines 28-32). It appears, however, that only the tertiary features are used in voice verification and caller identification. See col. 8, lines 16-31. These features appear to be part of a single voice authentication algorithm, such as Hidden Markov Modeling. See col. 13, lines 54-58. Thus, Hunt does not disclose the use of at least two independent algorithms for voice authentication as presently claimed. Therefore the amended claims are not obvious over Kondo in view of Hunt.

Conclusion

Applicant requests that the Examiner enter the Amendment, which should put the claims in form for allowance. If the Examiner would like to discuss the Amendment, the Examiner is respectfully requested to call the undersigned at 312-321-4711.

Respectfully submitted,

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APPENDIX A

1. (Twice Amended) A method for recognizing voice commands for manipulating data on the Internet, comprising the steps of:

- providing data on a website on the Internet;
- receiving voice signals from a user accessing the website;
- establishing an identity of the user through [the] at least two voice authentication algorithms [signals];
- interpreting the voice signals of the user for determining navigation commands; and
- outputting selected data of the website based on the navigation commands.

7. (Twice Amended) A computer program embodied on a computer readable medium for recognizing voice commands for manipulating data on the Internet, comprising:

- a code segment that provides data on a website on the Internet;
- a code segment that receives voice signals from a user accessing the website;
- a code segment that compares the voice signals from the user with a previously-recorded voice sample to establish an identity of the user, using at least two voice-authentication algorithms;
- a code segment that interprets the voice signals of the user for determining navigation commands; and
- a code segment that outputs selected data of the website based on the navigation commands.

13. (Twice Amended) A system for recognizing voice commands for manipulating data on the Internet, comprising:

logic that provides data on a website on the Internet;

logic that receives voice signals from a user accessing the website;

logic that compares the voice signals from the user to previously-stored voice samples of the user to establish an identity of the user, using at least two voice-authentication algorithms;

logic that interprets the voice signals of the user for determining navigation commands; and

logic that outputs selected data of the website based on the navigation commands.

19. (Amended) A method for recognizing voice commands for manipulating data on the Internet, the method comprising:

receiving a voice signal from a person cleared for access to the data;

characterizing the voice signal and storing a plurality of parameters indicative of a voice of the person;

receiving voice signals from a user desiring access to the data;

comparing the voice signals to a data base of voice signals for persons cleared for access to the data, using at least two voice-authentication algorithms;

allowing the user to access the data if the user [in] is included in the database; and

interpreting the voice signals of the user for determining navigation commands.

26. (Amended) A system for accessing and navigating data on the Internet using voice signals, comprising:

- a transducer for transducing and transmitting signals indicative of a voice;
- a terminal for receiving signals indicative of the voice, the terminal further comprising a receiver, an analog front end, and a codec;
- an interface between the terminal and a processor; and
- a processor for receiving and processing signals from the transducer and the terminal through the interface,

wherein a user inputs a voice signal to the transducer, access to the data on the Internet is allowed if the voice signal matches a previously-stored voice signal from the user using at least two voice-authentication algorithms, and the system interprets the voice signals of the user for determining navigation commands.

30. (Amended) A computer program embodied on a computer readable medium for recognizing voices and voice commands for accessing and manipulating data on the Internet, the program comprising:

- a code segment for receiving and digitizing voice signals from a user;
- a code segment for analyzing the voice signals and determining statistical parameters indicative of the voice and voice commands from the user;
- a code segment for identifying and storing statistical parameters indicative of a voice signal from a user;
- a code segment that interprets voice signals and voice commands of the user for determining an identity of the user using at least two voice-authentication algorithms; and
- a code segment for navigating on the Internet.